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## 1 Reducing I/O demand in video-on-demand storage servers

Leana Golubchik, John C. S. Lui, Richard Muntz

May 1995 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the conference on Measurement and modeling of computer systems, Volun

Full text available: pdf(1.37 MB)

Additional Information: full citation, abstract, references,

Recent technological advances have made multimedia on-demand services, such as home-shopping, important to the consumer market. One of the most challenging problems in providing access either instantaneously or within a small and reasonable latency is a novel approach, termed adaptive piggybacking, which can be used to provide content and at the same time reduce the I/O demand on the ...

## 2 Technical reports

SIGACT News Staff


January 1980 ACM SIGACT News, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

### 3 Staggered striping in multimedia information systems

Steven Berson, Shahram Ghandeharizadeh, Richard Muntz, Xiangyu Ju

May 1994 ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Database Management, Volume 23 Issue 2

Full text available:  pdf(1.20 MB)


Additional Information: full citation, abstract, references,

Multimedia information systems have emerged as an essential component of modern library information systems to entertainment technology. However, most implementations support the continuous display of multimedia objects and suffer from frequent failures due to the low I/O bandwidth of the current disk technology, the high bandwidth requirements and the large size of the objects.

### 4 On-line extraction of SCSI disk drive parameters

Bruce L. Worthington, Gregory R. Ganger, Yale N. Patt, John Wilkes

May 1995 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the conference on Measurement and modeling of computer systems, Volume 25 Issue 1

Full text available:  pdf(1.21 MB)


Additional Information: full citation, abstract, references,

Sophisticated disk scheduling algorithms require accurate, detailed disk drive parameters such as mechanical delays, on-board caching and prefetching algorithms, command and logical-to-physical block mappings. Comprehensive disk models used in storage system design are described in detail. We describe a suite of general-purpose algorithms and techniques for an on-line extraction of SCSI disk drive parameters. Using only the ANSI-standard disk drive parameters, we can extract the following parameters: seek time, rotational latency, and transfer rate.

### 5 Distributed systems - programming and management: On remote procedure call

Patrícia Gomes Soares

November 1992 Proceedings of the 1992 conference of the Centre for Advanced Studies in Computing and Communications

Full text available:  pdf(4.52 MB)

Additional Information: full citation, abstract, references,

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described and the mechanisms that support it. An overview of works in supporting these mechanisms is given. Some of the mechanisms that have been proposed to enlarge its suitability, are studied. The new standard view and classification of RPC mechanisms according to different perspectives are presented. The use of RPC today and of goals for the future are discussed.

### 6 Building reliable mobile-aware applications using the Rover toolkit

Anthony D. Joseph, M. Frans Kaashoek

October 1997

Wireless Networks, Volume 3 Issue 5

Full text available:  pdf(371.04 KB)


Additional Information: full citation, abstract, references,

This paper discusses extensions to the Rover toolkit for constructing reliable mobile applications. We improve upon the existing failure model, which addresses client or communication link failures, by adding server failures. We also address message delivery from clients to server, but does not address server failures (or communication link failures) (Joseph et al., 1997). Due to the unpredictable, intermittent nature of failures in mobile environments, the Rover toolkit is designed to be robust to failures.

**7 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced S

Full text available:  pdf(4.21 MB)


Additional Information: full citation, abstract, referenc

Understanding distributed applications is a tedious and difficult task. Visualizati  
often used to obtain a better understanding of the execution of the application.  
event tracer developed at the University of Waterloo. However, these diagrams  
the user with the desired overview of the application. In our experience, such t  
non-trivial commun ...

**8 Building reliable mobile-aware applications using the Rover toolkit**

Anthony D. Joseph, M. Frans Kaashoek

November 1996 Proceedings of the 2nd annual international conference on Mobile c

Full text available:  pdf(1.36 MB)

Additional Information: full citation, references, citings, inde

**9 An efficient deadline-credit-based transport scheme for prerecorded semi**

Zoe Antoniou, Ioannis Stavrakakis

October 2002 IEEE/ACM Transactions on Networking (TON), Volume 10 Iss

Full text available:  pdf(409.93 KB)

Additional Information: full citation, abstract, referer

In this paper, an efficient scheme is proposed based on the introduced deadlin  
appropriate for any prerecorded media, but is particularly relevant for prerecor  
applications. Semisoft are applications with very small initial delay tolerance ar  
content may be sent in advance. The proposed policy pushes content toward th  
advantage of any bandwidth ...

Keywords: application data unit, continuous media applications, deadline credit

## 10 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Borriello, Steven Gribble, David Wetherall

November 2004

ACM Transactions on Computer Systems (TOCS), Volume 2.

Full text available:  pdf(1.82 MB)

Additional Information: full citation, abstract, reference

Pervasive computing provides an attractive vision for the future power will be available everywhere. Mobile and stationary devices coordinate to seamlessly help people in accomplishing their tasks in reality, developers must build applications that constantly adapt to the environment. To make the developers' task feasible, we present pervasive computing, called & ...


Keywords: Asynchronous events, checkpointing, discovery, log one.world, pervasive computing, structured I/O, tuples, ubiquitous

## 11 Flowcharting With the ANSI Standard: A Tutorial

Ned Chapin

June 1970

ACM Computing Surveys (CSUR), Volume 2 Issue 2

Full text available:  pdf(2.22 MB) Additional Information: full citation, references, citations, index terms

## 12 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000

ACM Transactions on Design Automation of Electronic Systems (TODAES)

Full text available:  pdf(385.22 KB)

Additional Information: full citation, abstract, reference


This tutorial surveys design methods for energy-efficient system-level design. We consider a hardware platform and software layers. We consider the three major constituents namely computation, communication, and storage units, and we review methods. We also study models for analyzing the energy cost of software, and methods for compilation. This survey ...

**13 ARIES: a transaction recovery method supporting fine-granularity locking logging**

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz

March 1992

ACM Transactions on Database Systems (TODS), Volume 17 Iss

Full text available:  pdf(5.23 MB)

Additional Information: full citation, abstract, references, citir

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database persistent object-oriented languages, recoverable file systems and transaction implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXC


Keywords: buffer management, latching, locking, space management, write-ar

**14 Image Retrieval from the World Wide Web: Issues, Techniques, and Syst**

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004

ACM Computing Surveys (CSUR), Volume 36 Issue 1

Full text available:  pdf(294.13 KB)

Additional Information: full citation, abstract, referer

With the explosive growth of the World Wide Web, the public is gaining access. However, locating needed and relevant information remains a difficult task, wh. Text search engines have existed for some years now and have achieved a cer. the large number of images available on the Web, image search engines are st. order to allow people to profi ...


Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and search, similarity

**15 Pen computing: a technology overview and a vision**

André Meyer

July 1995

ACM SIGCHI Bulletin, Volume 27 Issue 3

Full text available:  pdf(5.14 MB)

Additional Information: full citation, abstract, citing:


This work gives an overview of a new technology that is attracting growing inte. industry itself. The visible difference from other technologies is in the use of a. interaction between a user and a machine, picking up the familiar pen and pap. set of consequences that will be analyzed and put into context with other emer. a short historic ...

**16 Status report of the graphic standards planning committee**

Computer Graphics staff


August 1979

ACM SIGGRAPH Computer Graphics, Volume 13 Issue 3

Full text available:  pdf(15.01 MB) Additional Information: full citation, references, citings

## 17 Data and memory optimization techniques for embedded systems

P. R. Panda, F. Catthoor, N. D. Dutt, K. Danckaert, E. Brockmeyer, C. Kulkarni, A. April 2001 ACM Transactions on Design Automation of Electronic Systems (TODAES)

Full text available:  pdf(339.91 KB)

Additional Information: full citation, abstract, references


We present a survey of the state-of-the-art techniques used in performing data and memory optimization for embedded systems. The optimizations are targeted directly or indirectly at the more out of three important cost metrics: area, performance, and power dissipation. We first examine architecture-independent optimizations in the form of code transformation and then the spectrum of optimization techniques for embedded systems.

Keywords: DRAM, SRAM, address generation, allocation, architecture exploration, optimization, high-level synthesis, memory architecture customization, memory estimation, survey

## 18 Log files: an extended file service exploiting write-once storage

R. Finlayson, D. Cheriton

November 1987 ACM SIGOPS Operating Systems Review , Proceedings of the eleven principles, Volume 21 Issue 5

Full text available:  pdf(1.07 MB)

Additional Information: full citation, abstract, references,

A log service provides efficient storage and retrieval of data that is written sequentially and subsequently modified. Application programs and subsystems use log services for performance monitoring. Ideally, a log service should accommodate very efficient retrieval and low space overhead. In this paper, we describe the design of a log service. Clio provides ...

## 19 Level II technical support in a distributed computing environment

Tim Leehane

September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on User

Full text available:  pdf(5.73 MB)

Additional Information: full citation, references, index terms

## 20 Articles: A context-aware methodology for very small data base design

C. Bolchini, F. A. Schreiber, L. Tanca

March 2004

ACM SIGMOD Record, Volume 33 Issue 1

Full text available:  pdf(381.70 KB)

Additional Information: full citation, abstract, references

The design of a Data Base to be resident on portable devices and embedded processors considering both the device memory peculiarities and the mobility aspects, which are typical of embedded applications. Moreover, these devices are often part of a larger Information mobile resources. We propose a complete methodology for designing Very Small device resident portions down to ...

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